

December 13, 1996

MEMBERS AND ALTERNATES,
CALIFORNIA TRAFFIC CONTROL DEVICES COMMITTEE

1996 ANNUAL REPORT

This 1996 annual report of actions taken by the California Traffic Control Devices Committee is respectfully submitted in compliance with the CTCDC Bylaws.

Sincerely,

Jack M. Kletzman
Executive Secretary, CTCDC

**CALIFORNIA TRAFFIC CONTROL DEVICES COMMITTEE
1996 ANNUAL REPORT**

This report is prepared in compliance with Article IV of the bylaws of the California Traffic Control Devices Committee.

1996 Voting Members

Mr. Dick Folkers	Chairman, LOCC, City of Palm Desert, 73-510 Fred Waring Drive Palm Desert, CA 92260
Mr. Wayne Tanda	Vice Chairman, LOCC, City of San Jose, 4 North Second Street, Suite 1000 San Jose, CA 95113
Ms. Merry Banks	California State Automobile Association, 150 Van Ness Avenue San Francisco, CA 94102-1860
Mr. Bruce Carter	CSAC, Shasta County, Department of Public Works, 1855 Placer Street Redding, CA 96001
Capt. Joe Farrow	California Highway Patrol, 2555 First Avenue Sacramento, CA 95818
Mr. Gary Foxen	Auto Club of Southern California, P.O. Box 2890 Los Angeles, CA 90051
Mr. Jack Kletzman	California Department of Transportation, 1120 N Street Sacramento, CA 95814
Mr. John Wallo	CSAC, San Luis Obispo County Traffic Department, Court House Annex, Osos and Palm Streets San Luis Obispo, CA 93408

The following alternate members were designated by the parent organizations to act in the absence of their appointed delegates:

Mr. Dwight Ku	California State Automobile Association, 980 Ninth Street, Suite 1520 Sacramento, CA 95814
Mr. Farhad Mansourian	CSAC, Marin County, Department of Public Works, P.O. Box 4186 San Rafael, CA 94913
Mr. Ray Mellen	Auto Club of Southern California, P.O. Box 2890 Los Angeles, CA 90051
Mr. Chris Ramstead	CSAC, Los Angeles County, Department of Public Works, P.O. Box 1460 Alhambra, CA 91802-1460
Mr. Ed Von Borstel	LOCC, City of Modesto, P.O. Box 642 Modesto, CA 95353
Lt. Pat Burnett	California Highway Patrol, 2555 First Avenue Sacramento, CA 95818
(Vacant)	California Department of Transportation LOCC

Secretary

Mr. Jack Kletzman	California Department of Transportation, 1120 N Street Sacramento, CA 95814
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MEETINGS

January 25, 1996	District Auditorium Caltrans, District D11	San Diego
May 29 & 30, 1996	Headquarters, Caltrans (Working Session TM Ch. 4, 6, & 8)	Sacramento
September 5, 1996	Headquarters, Caltrans	Sacramento
September 6, 1996	Headquarters, Caltrans (Committee Workshop)	Sacramento

**1996 CTCDC
AGENDA ITEMS**

<u>Agenda Item No.</u>	<u>Title</u>
90-7	BICYCLE SIGNAL HEADS
92-18	GOLF CART SYMBOL SIGN
93-2	L.E.D. STUDY, CALTRANS
93-5	BIKEWAY DELINEATION ACROSS FREEWAY RAMPS
93-18	CROSS WALKS, SEQUENTIAL LIGHTING
94-3	STOP SIGNS AT MID BLOCK
94-9	SIGNAL PHASE SIGN (R54)
94-10	PEDESTRIAN SIGNAL HEAD
95-9	LEFT TURN LANE PROTECTED/PERMISSIVE SIGN
95-11	DIAMOND LANE, WARNING SIGNS
95-12	SYMBOL SIGNS, TRUCK CROSSING/ENTERING ROAD & WATCH FOR ROCKS
95-13	HIGHWAY MARKERS, CALTRANS EXPERIMENT WITH SAFETY STRAND.
96-1	BIKE ROUTE SIGNS
96-2	UNEVEN PAVEMENT SIGN
96-3	ILLUMINATED LEFT TURN YIELD SIGN
96-4	ITE PURCHASE SPECIFICATION FOR LED TRAFFIC SIGNAL MODULES
96-5	SIGNAL PHOTO ENFORCED SIGN
96-6	SEISMIC RETROFIT AND EARTHQUAKE REPAIR SIGNS
96-7	SPEED LIMIT SIGNING

Information Items

96 - A FOREIGN TRAFFIC CONTROL DEVICES

COMMITTEE ACCOMPLISHMENTS

Item 93-5 Voting by phone, recommended approval of a proposed standard plan for bicycles crossing a freeway. This standard has limited application. Caltrans Design and Traffic Operation units subsequently modified the plan and this modified plan was recommended for approval. Caltrans has adopted this standard plan for the Traffic Manual.

Item 94-9 Recommended retaining the R54 sign, but changing the sign to a warning sign and adopting a proposed revised policy. This recommendation has been approved by Caltrans and the sign is now designated as SW53. The new policy is "The ____ WAY SIGNAL sign (SW53) may be used at a signalized intersection, where the signal indications provide more than two distinct traffic movements, and a traffic movement may not be readily apparent to the motorist. Signs shall be placed below the signal head on the signal standard at the far right and in the median (if a signal indication is located there.)"

Item 95-7 The Cougar Co. demonstrated a sign which can use light from the sun or street lamp to light the street sign. Because of the volume of correspondence, a file was set up for their proposed device. They were unable to obtain sufficient interest from a local agency to present the device to the Committee and the item has been withdrawn.

Item 95-12 Recommended adoption of the proposed truck entering road symbol sign. The proposed falling rocks symbol sign had been recommended for adoption at the previous meeting. These signs were adopted from international symbol signs proposed for use under NAFTA. Caltrans has approved the signs designated as a truck entering road symbol sign (SW 40-1), TRUCK CROSSING plate (SW 40-1A), and a falling rocks symbol sign (W50-1).

Item 95-13 Upon notification that laboratory tests showed the Safety Strand highway marker lost its color when exposed to ultra violet light, rejected the device

Item 96-1 San Francisco's request for bicycle route signing was recommended for approval. The sign is a standard-unique version of the MUTCD M1-8. Caltrans approved a standard-unique bicycle symbol route sign (SG45) and two companion plates (SG 45 A & B)

Item 96-2 Recommended adoption of an uneven pavement symbol sign to be used in construction when the difference in elevation is at least 0.15 feet (46mm) between adjacent traffic lanes. Caltrans adopted an uneven pavement symbols sign C41 and an UNEVEN LANES plate C41A. (Minor adjustments will be made to the policy. The sign will be used for differences in elevation of greater than 0.15 feet and the use of an educational plate will be changed from a shall to a should condition.)

Item 96-5 The vehicle code requires that in order to use automated traffic enforcement, signs must be erected either, at the traffic signal, or at all major entrances to the city. In order to comply Caltrans adopted a SIGNAL PHOTO ENFORCED (SR 56) sign. Two local agencies submitted independent recommendations for such a sign and all the signs were reviewed by the Committee. San Francisco's PHOTO ENFORCED sign with a signal symbol was recommended. Caltrans has rescinded its initial sign and has adopted San Francisco's version for the SR56 sign.

Item 96-6 Recommended that Caltrans redesign the seismic retrofit sign because the message is unclear and it looks like a traffic control device. This sign is a Project Development sign and is used to publicize conspicuous projects under construction for more than one year. Caltrans will retain the sign.

The Committee reviewed and commented on proposed Chapters 4, 6, and 8 of the Traffic Manual.

SUMMARY OF ACCOMPLISHMENTS 1996

- 1 item carried over from 1990
- 4 items carried over from 1992
- 7 items carried over from 1993
- 3 items carried over from 1994
- 5 items carried over from 1995
- 7 items introduced in 1996
- 19 items considered in 1996
- 8 items not considered in 1996
- 7 items completed in 1996
- 2 items withdrawn in 1996
- 5 items considered but tabled in 1996
- 5 items carried over to 1997

ITEMS CARRIED INTO FUTURE YEARS

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|------------|---|
| Item 92-18 | GOLF CART SYMBOL SIGN |
| Item 93-18 | CROSSWALKS, SEQUENTIAL LIGHTING |
| Item 94-3 | STOP SIGNS AT MID BLOCK |
| Item 96-4 | ITE PURCHASE SPECIFICATION FOR LED TRAFFIC SIGNAL MODULES |
| Item 96-7 | SPEED LIMIT SIGNING |

ITEMS WITHDRAWN OR DELETED 1996

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| Item 95-7 | SIGNS, SELF ILLUMINATING |
| Item 95-13 | HIGHWAY MARKERS, CALTRANS EXPERIMENT WITH SAFETY STRAND |

ITEMS NOT CONSIDERED 1996

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| Item 92-4A | TRAFFIC SIGNAL DIMMING, CITY OF SAN JOSE |
| Item 92-4B | L.E.D. STUDY, CITY OF SAN JOSE |
| Item 92-4C | L.E.D. STUDY, BY OTHER LOCAL AGENCIES |
| Item 93-4 | CONVEX MIRRORS |
| Item 93-10 | SIGNING, YELLOW GREEN SPECTRUM |
| Item 93-12 | PEDESTRIAN CROSSWALKS |
| Item 93-14 | SPEED CONTROL SIGN EXPERIMENTATION REQUEST |
| Item 95-7 | SIGNS, SELF ILLUMINATING |

TABLED AGENDA ITEMS

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| Item 90-7 | BICYCLE SIGNAL HEADS |
| Item 92-4A | TRAFFIC SIGNAL DIMMING, CITY OF SAN JOSE |
| Item 92-4B | L.E.D. STUDY, CITY OF SAN JOSE |
| Item 92-4C | L.E.D. STUDY, BY OTHER LOCAL AGENCIES |
| Item 93-2 | L.E.D. STUDY, CALTRANS |
| Item 93-4 | CONVEX MIRRORS |
| Item 93-10 | SIGNING, YELLOW GREEN SPECTRUM |
| Item 93-12 | PEDESTRIAN CROSSWALKS |
| Item 93-14 | SPEED CONTROL SIGN EXPERIMENTATION REQUEST |
| Item 94-10 | PEDESTRIAN SIGNAL HEAD |
| Item 95-9 | LEFT TURN LANE PROTECTIVE/PERMISSIVE SIGN |
| Item 96-3 | ILLUMINATED LEFT TURN YIELD SIGNS |

STATUS OF EXPERIMENTAL ITEMS

Item 90-7 BICYCLE SIGNAL HEADS

The experiment appears successful at least at one "T" intersection with heavy pedestrian and bicycle traffic. In order to be an approved traffic control device, changes are needed in the Vehicle Code. The Committee had other concerns about the proposed device and asked the City of Davis, with assistance from CBAC, to develop proposed warrants, standards and draft legislation for the device.

Item 92-4A TRAFFIC SIGNAL DIMMING

No report in 1996.

Item 92-4B LED STUDY, CITY OF SAN JOSE

No report in 1996.

Item 92-4C LED STUDY, BY OTHER LOCAL AGENCIES

No report in 1996.

Item 93-2 L.E.D. STUDY BY CALTRANS

Caltrans requested testing newer LEDs in District 4 (Oakland).

Item 93-10 SIGNING, YELLOW GREEN SPECTRUM

The Committee voted to wait until recommendations are published by the MUTCD.
No report in 1996.

Item 93-12 PEDESTRIAN CROSSWALKS

No report in 1996.

Item 93-14 SPEED CONTROL SIGN, EXPERIMENTATION REQUEST

No report in 1996.

Item 93-18 CROSSWALKS, SEQUENTIAL LIGHTING

There is insufficient data to reach any conclusions at this time. The Cities of Camarillo, Fort Bragg, Lafayette, West Hollywood, and Willits have been granted permission to experiment with this device.

Item 94-10 PEDESTRIAN SIGNAL HEAD

Approval was given to the County of Sacramento to expand the experiment to a maximum of five additional intersections.

Item 95-9 LEFT TURN LANE PROTECTIVE/PERMISSIVE SIGN

The Committee granted the City of Lake Elsinore permission to experiment with the proposed sign.

Item 96-3 ILLUMINATED LEFT TURN YIELD SIGNS

The Committee granted the City of San Jose permission to experiment with the proposed sign.

MISCELLANEOUS

Captain Joe Farrow has replaced Captain Don Follett as the representative for the California Highway Patrol. Lieutenant Pat Burnett has replaced Lieutenant Shawn Watts as the alternate representative for the same organization.

CTCDC Agenda and Minutes are now available on the internet at "<http://www.dot.ca.gov/hq/traffops/>" under New Standards and Technology Home Page.

Additional information regarding the minutes of the CTCDC meetings held during 1996 may be obtained upon request from the Executive Secretary or any member of the California Traffic Control Devices Committee.

Respectfully submitted,

Jack M. Kletzman
Executive Secretary, CTCDC
(916) 654-4715

SIGNING RECOMMENDATIONS

All additions, revisions and deletions of approved sign specifications made by Caltrans during 1996, will be distributed under separate cover.

As provided in California Vehicle Code Sections 212400 and 21401, a list of approved signs for use on streets and highways in California is available from the Caltrans Manuals and Publications Unit, 1900 Royal Oaks Drive, Sacramento, CA 95815.